Janet M Oliver

List of Publications by Year
in descending order

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73 papers	4,149 citations	94433 37 h-index	110387 64 g-index
73 all docs	73 docs citations	73 times ranked	3384 citing authors

#	Article	IF	Citations
1	Actin restricts FcÉ›RI diffusion and facilitates antigen-induced receptor immobilization. Nature Cell Biology, 2008, 10, 955-963.	10.3	271
2	Observing FcÎµri Signaling from the Inside of the Mast Cell Membrane. Journal of Cell Biology, 2000, 149, 1131-1142.	5.2	218
3	Markers for Detergent-resistant Lipid Rafts Occupy Distinct and Dynamic Domains in Native Membranes. Molecular Biology of the Cell, 2004, 15, 2580-2592.	2.1	191
4	Surface functions during mitosis I: Phagocytosis, pinocytosis and mobility of surface-bound ConA. Cell, 1978, 15, 327-341.	28.9	187
5	High resolution mapping of mast cell membranes reveals primary and secondary domains of FcÏµRI and LAT. Journal of Cell Biology, 2001, 154, 645-658.	5.2	178
6	Syk deficiency in nonreleaser basophilsâ˜†â˜†â˜†.... Journal of Allergy and Clinical Immunology, 1999, 104, 279-284.	4.9	161
7	Water-Soluble Germanium(0) Nanocrystals: Cell Recognition and Near-Infrared Photothermal Conversion Properties. Small, 2007, 3, 691-699.	10.0	140
8	Concanavalin A cap formation on polymorphonuclear leukocytes of normal and beige (Chediak-Higashi) mice. Nature, 1975, 253, 471-473.	27.8	138
9	Membrane Transport of Purine and Pyrimidine Bases and Nucleosides in Animal Cells. International Review of Cytology, 1975, 42, 287-336.	6.2	136
10	Negative regulation of FcÏµRI signaling by FcÎ³RII costimulation in human blood basophils. Journal of Allergy and Clinical Immunology, 2000, 106, 337-348.	2.9	131
11	Real Time Analysis of the Affinity Regulation of Î±4-Integrin. Journal of Biological Chemistry, 2001, 276, 48670-48678.	3.4	124
12	Dysregulated FcÎµRI Signaling and Altered Fyn and SHIP Activities in Lyn-Deficient Mast Cells. Journal of Immunology, 2004, 173, 100-112.	0.8	120
13	Small, Mobile FcÉ›RI Receptor Aggregates Are Signaling Competent. Immunity, 2009, 31, 469-479.	14.3	110
14	Calcium-dependent Clustering of Inositol 1,4,5-Trisphosphate Receptors. Molecular Biology of the Cell, 1998, 9, 1465-1478.	2.1	102
15	Mapping ErbB receptors on breast cancer cell membranes during signal transduction. Journal of Cell Science, 2007, 120, 2763-2773.	2.0	93
16	Mechanisms That Regulate the Structural and Functional Architecture of Cell Surfaces. International Review of Cytology, 1982, 74, 55-94.	6.2	87
17	Multiple Defects in FcÎµRI Signaling in Syk-Deficient Nonreleaser Basophils and IL-3-Induced Recovery of Syk Expression and Secretion. Journal of Immunology, 2000, 165, 5913-5920.	0.8	87
18	Characterizing the topography of membrane receptors and signaling molecules from spatial patterns obtained using nanometer-scale electron-dense probes and electron microscopy. Micron, 2006, 37, 14-34.	2.2	87

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19	Oxidative Damage to Neutrophils in Glutathione Synthetase Deficiency. British Journal of Haematology, 1979, 42, 215-223.	2.5	82
20	IgE alone stimulates mast cell adhesion to fibronectin via pathways similar to those used by IgE + antigen but distinct from those used by Steel factor. Blood, 2003, 102, 1405-1413.	1.4	80
21	Anticytoskeletal autoantibodies in the connective tissue diseases. Arthritis and Rheumatism, 1985, 28, 889-898.	6.7	78
22	Distinct Functions of the FcâˆŠR1 Î³ and Î² Subunits in the Control of FcâˆŠR1-mediated Tyrosine Kinase Activation and Signaling Responses in RBL-2H3 Mast Cells. Journal of Biological Chemistry, 1995, 270, 4013-4022.	3.4	68
23	Fluorescence techniques for following interactions of microtubule subunits and membranes. Nature, 1975, 254, 152-154.	27.8	66
24	Asymmetric Fc receptor distribution on human PMN oriented in a chemotactic gradient. Nature, 1980, 286, 724-725.	27.8	64
25	Identification of the FcÎµRI-activated tyrosine kinases Lyn, Syk, and Zap-70 in human basophils. Journal of Allergy and Clinical Immunology, 1998, 102, 304-315.	2.9	64
26	FcÎµRI signaling observed from the inside of the mast cell membrane. Molecular Immunology, 2002, 38, 1259-1268.	2.2	60
27	Reduced FcÎµRI-Mediated Release of Asthma-Promoting Cytokines and Chemokines from Human Basophils during Omalizumab Therapy. International Archives of Allergy and Immunology, 2010, 151, 275-284.	2.1	59
28	Relationship of IgE receptor topography to secretion in RBL-2H3 mast cells. Journal of Cellular Physiology, 1991, 148, 139-151.	4.1	57
29	Antigenâ€Dependent transition of IgE to a detergentâ€insoluble form is associated with reduced IgE receptorâ€dependent secretion from RBLâ€2H3 mast cells. Journal of Cellular Physiology, 1990, 144, 128-136.	4.1	54
30	Immunologically mediated signaling in basophils and mast cells: finding therapeutic targets for allergic diseases in the human FcÎµR1 signaling pathway. Immunopharmacology, 2000, 48, 269-281.	2.0	54
31	DNPâ€phycobiliproteins, fluorescent antigens to study dynamic properties of antigenâ€IgEâ€receptor complexes on RBLâ€2H3 rat mast cells. Cytometry, 1987, 8, 287-295.	1.8	51
32	Formation of a Mast Cell Synapse: FcÎµRI Membrane Dynamics upon Binding Mobile or Immobilized Ligands on Surfaces. Journal of Immunology, 2010, 184, 1328-1338.	0.8	51
33	The identification and characterization of umbilical cord blood-derived human basophils. Journal of Leukocyte Biology, 1998, 64, 474-483.	3.3	49
34	[33] Use of horseradish peroxidase and fluorescent dextrans to study fluid pinocytosis in leukocytes. Methods in Enzymology, 1984, 108, 336-347.	1.0	46
35	Histamine Release from the Basophils of Control and Asthmatic Subjects and a Comparison of Gene Expression between â€œReleaserâ€•and â€œNonreleaserâ€•Basophils. Journal of Immunology, 2007, 178, 4584-4594.	0.8	41
36	Environmental polycyclic aromatic hydrocarbons, benzo(a) pyrene (BaP) and BaP-quinones, enhance IgE-mediated histamine release and IL-4 production in human basophils. Clinical Immunology, 2003, 107, 10-19.	3.2	40

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37	The Src kinase Lyn is a negative regulator of mast cell proliferation. Journal of Leukocyte Biology, 2004, 75, 143-151.	3.3	38
38	Cytoskeletal regulation of concanavalin A capping in pulmonary alveolar macrophages. Nature, 1977, 267, 255-257.	27.8	37
39	Tyrosine kinase-dependent phosphatidylinositol turnover and functional responses in the FcÎµR1 signalling pathway. Biochemical and Biophysical Research Communications, 1991, 179, 551-557.	2.1	32
40	Exploring Membrane Domains Using Native Membrane Sheets and Transmission Electron Microscopy. Methods in Molecular Biology, 2007, 398, 245-261.	0.9	30
41	Increased Expression of Genes Linked to FcÎµRI Signaling and to Cytokine and Chemokine Production in Lyn-Deficient Mast Cells. Journal of Immunology, 2005, 175, 7880-7888.	0.8	29
42	Mechanisms of Microtubule Disassembly in Vivo: Studies in Normal and Chronic Granulomatous Disease Leucocytes. British Journal of Haematology, 1977, 37, 311-322.	2.5	25
43	Proteasome-dependent regulation of Syk tyrosine kinase levels in human basophils. Journal of Allergy and Clinical Immunology, 2002, 110, 366-373.	2.9	24
44	A Comparison of Inflammatory Mediators Released by Basophils of Asthmatic and Control Subjects in Response to High-Affinity IgE Receptor Aggregation. International Archives of Allergy and Immunology, 2008, 145, 182-192.	2.1	24
45	Single-Cell Measurements of IgE-Mediated FcÎµRI Signaling Using an Integrated Microfluidic Platform. PLoS ONE, 2013, 8, e60159.	2.5	23
46	Spatio-Temporal Signaling in Mast Cells. Advances in Experimental Medicine and Biology, 2011, 716, 91-106.	1.6	21
47	Using Hierarchical Clustering and Dendrograms to Quantify the Clustering of Membrane Proteins. Bulletin of Mathematical Biology, 2012, 74, 190-211.	1.9	20
48	Membrane Receptor Mapping: The Membrane Topography of FcÎµRI Signaling. Sub-Cellular Biochemistry, 2004, , 3-34.	2.4	20
49	Importance of bicarbonate ion for intracellular pH regulation in antigen- and ionomycin-stimulated RBL-2H3 mast cells. Cytometry, 1992, 13, 127-136.	1.8	18
50	Overcoming the Signaling Defect of Lyn-Sequestering, Signal-Curtailing FcÎµRI Dimers: Aggregated Dimers Can Dissociate from Lyn and Form Signaling Complexes with Syk. Journal of Immunology, 2001, 167, 4329-4337.	0.8	18
51	ActivatedN-Formyl Peptide Receptor and High-Affinity IgE Receptor Occupy Common Domains for Signaling and Internalization. Molecular Biology of the Cell, 2007, 18, 1410-1420.	2.1	17
52	Regulation of IgE receptor-mediated secretion from RBL-2H3 mast cells by GTP binding-proteins and calcium. Biochemical and Biophysical Research Communications, 1991, 174, 1064-1069.	2.1	16
53	Kinetic Proofreading of Ligand-FcÎµRI Interactions May Persist beyond LAT Phosphorylation. Journal of Immunology, 2007, 178, 3530-3535.	0.8	13
54	The effects of oestradiol on nucleoside transport in rat uterus. Biochemical Journal, 1971, 121, 83-88.	3.1	12

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55	Cooperation between the FcÏµR1 and Formyl Peptide Receptor Signaling Pathways in RBLFPRCells: The Contribution of Receptor-Specific Ca2+Mobilization Responses. Biochemical and Biophysical Research Communications, 1997, 235, 812-819.	2.1	12
56	Synthesizing Biofunctionalized Nanoparticles to Image Cell Signaling Pathways. IEEE Transactions on Nanobioscience, 2006, 5, 222-230.	3.3	11
57	Cell motility and microtubules in cultured fibroblasts from patients with Kartagener syndrome. Cell Motility, 1983, 3, 185-197.	1.8	10
58	Relationship of ligand-receptor dynamics to actin polymerization in RBL-2H3 cells transfected with the human formyl peptide receptor. Journal of Leukocyte Biology, 1997, 62, 535-546.	3.3	10
59	Roles for the High Affinity IgE Receptor, Fc?RI, of Human Basophils in the Pathogenesis and Therapy of Allergic Asthma: Disease Promotion, Protection or Both?. The Open Allergy Journal, 2010, 3, 91-101.	0.5	10
60	Markov Random Field Modeling of the Spatial Distribution of Proteins on Cell Membranes. Bulletin of Mathematical Biology, 2008, 70, 297-321.	1.9	8
61	Insights into Cell Membrane Microdomain Organization from Live Cell Single Particle Tracking of the IgE High Affinity Receptor FcÏµRI of Mast Cells. Bulletin of Mathematical Biology, 2012, 74, 1857-1911.	1.9	8
62	Regulation of human basophil adhesion to endothelium under flow conditions: Different very late antigen 4 regulation on umbilical cord blood-derived and peripheral blood basophils. Journal of Allergy and Clinical Immunology, 2002, 110, 469-475.	2.9	7
63	Exploring membrane protein dynamics by multicolor single quantum dot imaging using wide field, TIRF, and hyperspectral microscopy. , 2007, , .		7
64	Membrane receptor mapping: the membrane topography of Fc(epsilon)RI signaling. Sub-Cellular Biochemistry, 2004, 37, 3-34.	2.4	7
65	Macrophage Membranes. , 1976, , 259-273.		5
66	Impaired secretion and increased insolubilization of IgE-receptor complexes in mycophenolic acid-treated (guanine nucleotide-depleted) RBL-2H3 mast cells. Journal of Cellular Physiology, 1991, 149, 403-407.	4.1	3
67	Visualizing Clathrin-Mediated IgE Receptor Internalization by Electron and Atomic Force Microscopy. Methods in Molecular Biology, 2008, 440, 235-245.	0.9	2
68	Surface Functions in Dividing Macrophages. , 1980, , 705-732.		2
69	Quantifying IgE receptor aggregation from SEM-immunocytology. Proceedings Annual Meeting Electron Microscopy Society of America, 1995, 53, 782-783.	0.0	2
70	Regulation and Roles of the Membrane, Cytoskeletal and Adhesive Responses of RBL-2H3 Rat Tumor Mast Cells to FcÎµRI Crosslinking. Molecular Biology Intelligence Unit, 1997, , 139-172.	0.2	2
71	New Concepts of the Control of Cell Surface Structure and Function. , 1983, , 153-201.		1
72	A Microfluidic Platform with Microacoustics and Dielectrophoresis for High Throughput Analyses of Spatiotemporal Signaling in Biological Cells. , 2007, , .		0

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73	Phosphoinositide-Derived Second Messengers in FcÎµRI Signaling: PI-3 Kinase Products Control Membrane Topography and the Translocation and Activation of PLC-Î³1 in Antigen-Stimulated Mast Cells. , 1999, , 191-206.		0